PATENT SPECIFICATION

COPY

EXAMINER'S



Convention Date (France): July 28, 1932.

Application Date (in United Kingdom): July 28, 1933. No. 21,284 | 33.

Complete Accepted: Aug. 2, 1934.

COMPLETE SPECIFICATION.

Improvements in Backgrounds for Illuminated Objects.

I, Louis Henri Emile Grobery, of 1, rue Descartes, Asnières, Seine, France, a citizen of the French Republic, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:-

It is important, when it is desired to render objects, inscriptions or the like illuminated by artificial light perfectly visible at night time, to show them on a darker background which makes them stand out better.

But the luminous rays coming from lighting sources cannot in practice be directed solely on the surface of the object to be thrown into relief; such rays also reach the backgrounds and being reflected on them thus reduce the effect sought.

These defects are accentuated with out door installations, such as signs or inscriptions, by the effect of rain or moisture, which has the effect of making the backgrounds brilliant and reflective, even if the precaution has been taken of giving them a matt surface or coating.

The present invention has for its object to limit the illumination available to the object to be shown, by leaving the backgrounds in apparently complete darkness, due to the absorption of the luminous rays striking it, by means of the arrangement hereinafter described with reference to the annexed drawing which shows a section of such an arrangement and in which:

The object A is illuminated by one or more luminous sources B completed or not by one or more projectors C. The background D is formed of a number of laminæ or plates E disposed in such manner that they can not receive on their face visible to a spectator at F any ray coming from the luminous source B.

For this purpose, if these laminæ or plates E are plane, it is necessary and sufficient that their plane should pass through a point G disposed between the 50 luminous source B and the eye of the spectator F; thus, the faces of the plates visible to the spectator in the totality of his visual angle a remain in the dark and the luminous rays emanating from the source B only strike the parts invisible to

the spectator. Thus the background 55 appears absolutely dark.

These plates can be plane or curved, parallel to one another or not, and their dimensions are calculated according to the distance of the luminous sources; they can be fixed or movable, simply inter-connected or fixed to a solid base or to a lattice according to the effects to be obtained; their number is variable according to the dimensions of the object to be 65 thrown into relief and can be increased or reduced to the point where the background is formed of a single plate suitably disposed and profiled.

They may be formed of any material, either mounted separately, or formed integral with the background, which may be moulded, beaten, hollowed out or worked in any other way to obtain either recessed or in relief sidentical sheets for 177 plates giving the same result namely that any part of the said background visible to the spectator cannot receive direct rays

from luminous sources.

It is to be noted that in general the 80 luminous sources being disposed above the objects to be shown, the effect here sought particularly for illuminating effects is also obtained for the same reasons in daylight by absorption of the rays of natural light.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim

An arrangement for giving an entirely dark appearance to backgrounds serving to show objects illuminated by artificial or natural sources of light, characterised by the use of one or more plates or sheets the face of which visible to the spectator is disposed in such manner that it does not receive rays direct from the sources of light.

Dated this 28th day of July, 1933.

CRUIKSHANK & FAIRWEATHER. 65-66, Chancery Lane, London, W.C. 2. and 86, St. Vincent Street, Glasgow, Agents for the Applicant

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd -1934. [Price 1/-]

BEST AVAILABLE CO

90

GB 0414220 AUG 1934 1934

ISHEET Malby & Sons Photo-Litho.

BEST AVAILABLE COPY

3-911-1